### **REMARKS**

Docket No.: 10006614-1

- 1. In response to the Office Action mailed October 31, 2007, Applicants respectfully request reconsideration. Claims 1-4, 9, 13, 14, 16, 17 and 21-30 were last presented in the application. In the outstanding Office Action, all claims were rejected. By the foregoing amendments, claims 1, 14, 17 and 30 have been amended. No claims have been cancelled or added. Thus, upon entry of this paper, claims 1-4, 9, 13, 14, 16, 17 and 21-30 will remain pending in this application. Of these nineteen (19) claims, four (4) claims (claims 1, 14, 17 and 30) are independent.
- 2. Based on the above Amendments and following Remarks, Applicants respectfully request that all outstanding rejections be reconsidered, and that they be withdrawn.

## Claim Rejections

3. The Examiner has rejected claim 30 under 35 U.S.C. Section 102(a) as anticipated by "Otter: A General Purpose Network Visualization Tool," June 3, 2000, ISOC Inet 99 (<u>Huffaker et al.</u>), (hereinafter, "Huffaker"). Similarly, the Examiner has rejected claims 1-4, 9-14, 16-19 and 21-26 under 35 U.S.C. Section 103(a) as being unpatentable over Huffaker in view of U.S. Patent No. 7,127,743 to Khanolkar *et al.*, (hereinafter, "Khanolkar"). Reconsideration is respectfully requested.

## The Rejection of Claim 1 under 35 U.S.C. §103 is Prima Facie Improper

- 4. Referring specifically to claim 1, the Examiner recognizes that Huffaker fails to teach "filter criteria, including a selection of at least one of the network device types and at least one of said status levels" as recited, in part, in Applicants' claim 1. (See, Office Action, pages 4-5.) In the Office Action, the Examiner relies upon Khanolkar to teach the "filter criteria" elements which are missing from Huffaker. (See, Office Action, page 5.) The Examiner then asserts that "it would have been obvious at the time of invention to one of ordinary skill in the art to create the visual representation of the network as taught by Khanolkar because it would allow the user to focus on a particular set of devices." (See, Office Action, pages 4-5.)
- 5. Applicants respectfully request that the Examiner reconsider and withdraw the rejection for at least the following two reasons. First, the Examiner has failed to provide an appropriate

Docket No.: 10006614-1

basis for combining the cited references. Second, even if the references were combined as suggested by the Examiner, the proposed combination would still not contain all the elements of Applicants' claim 1.

## The Examiner has Failed to Properly Support the Proposed Combination

- 6. This rejection of claim 1 is *prima facie* improper because it provides no appropriate basis for combining Khanolkar with Huffaker. As recently stated by the Supreme Court, "a patent composed of several elements is not proved obvious merely by demonstrating that each of its elements was, independently known in the prior art." (*See KSR International Co. v. Teleflex Inc.*, 127 S.Ct. 1727, 1741 (2007).) Moreover, the Supreme Court recognized in *KSR* that "rejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some *articulated reasoning with some rational underpinning to support the legal conclusion of obviousness*." (*See KSR*, 127 S.Ct. at 1741 (citing *In re Kahn*, 441 F.3d 977, 988 (C.A.Fed. 2006).)
- 7. Applicants submit that the Examiner has completely failed to satisfy these legal obligations in the rejection of claim 1 under 35 U.S.C. §103. In particular, the Examiner has done what has been viewed as circumspect by the Supreme Court, and has merely provided a unsupported statement to justify the proposed combination.
- 8. Huffaker describes a tool for visualizing network data "expressed as a set of nodes, links or paths." (See, Huffaker, Abstract.) In Huffaker, the nodes and paths are displayed via a viewing window so that a network manager may visualize the topology of the network. (See, Huffaker, Abstract.) The automatic placement (display) of the nodes within the viewing window involves two phases during which all nodes of the network are graphically displayed to the user. (See, Huffaker, page 4.) The first phase of the node placement involves the central positioning of a subset of nodes referred to as "root nodes." (See, Huffaker, page 4.) These root nodes are displayed within the viewing window in a circular fashion, or positioned based to a coordinate system. (See, Huffaker, page 4.)
- 9. Following display of the root nodes, so called "non-root nodes" attached to the root nodes are also displayed within the viewing window. (See, Huffaker, page 4.) The non-root nodes are

displayed "without geographic coordinate information in semi-circles around their parent [root] node." (See, Huffaker, page 4.) The children or grandchildren of a root node are displayed at varying distances from the root node so that all children and grandchildren of the root node may be displayed in the viewing window without overlapping one another. (See, Huffaker, page 4.)

- 10. Once all root and non-root nodes have been displayed, a user may customize or adjust the display in a variety of manners. For example, a user may "change the status of nodes (i.e., turning non-root nodes into roots and vice versa, moving nodes or sub-trees around, and focusing on a specific region of the graph" via zoom functions. (See, Huffaker, pages 4-7.) Furthermore, in certain aspects of the Huffaker system, a user may color code nodes, links, and/or paths based on their attributes. (See, Huffaker, page 8.) This coloring may be completed via a "Color-by" pull down menu. (See, Huffaker, page 11; FIG. 11.)
- 11. Khanolkar is directed to an entirely different application than that described above with reference to Huffaker. In particular, Khanolkar is directed to a "computer system for detecting and monitoring network intrusion events from log data received from network service devices." (See, Khanolkar, Abstract.) An intrusion event refers to "any type of security breach and accidental or inadvertent misuse." (See, Khanolkar, col. 2, lines 5-8.)
- 12. Log data refers to the record of events, such as intrusion events, that occur in a computer system. (See, Khanolkar, col. 1, lines 38-40.) Such log data may comprise a large amount of information due to the fact that numerous events are recorded by a computer system. (See, Khanolkar, col. 2, lines 10-44.) The monitoring system of Khanolkar uses such log data to determine if an intrusion event has occurred. More specifically, the log data from a group of networked devices is continually provided to the security monitoring system. (See, Khanolkar, col. 2, lines 10-44.) Due to the large amount information that is provided, the monitoring system filters the log data for data related to intrusion events. (See, Khanolkar, col. 2, lines 10-44.) In certain aspects of Khanolkar, a "user may set filters that regulate the type [or] amount of log data received, limiting what passes the filter to only particular sources, particular event types, and/or particular protocols." (See, Khanolkar, col. 2, lines 40-44.)
- 13. Using the data that passes through these first filters, an event object is created for each intrusion event. (See, Khanolkar, col. 2, lines 10-44.) "Each event object that is created is read,

and the intrusion event information it contains is assigned a security level." (See, Khanolkar, col. 2, lines 45-55.) Only those event objects having a security level that meets or exceeds a certain threshold level are displayed as an intrusion alarm to the user via a display screen. (See, Khanolkar, col. 2, lines 45-55.)

- 14. In light of the teachings of Huffaker and Khanolkar, the above alleged justification provided by the Examiner clearly does not provide a rational underpinning to explain the proposed combination. As explained above, the system of Huffaker incorporates software elements that permit a user to customize the viewing window, including zooming, node customization, *etc.* (*See*, Huffaker, pages 5-8.) For example, in certain embodiments of Huffaker, a user may perform an incremental graph display. (*See*, Huffaker, page 9.) This "step-by-step" capability permits "the user to draw the graph incrementally from the root nodes out toward the leaves of the topology one "level" at a time." (*See*, Huffaker, page 9.) Due to these various software capabilities disclosed in Huffaker, Applicants assert that the system of Huffaker already permits a user to "focus on a particular set of devices" either by zooming or by viewing nodes "step-by-step" fashion. As such, Applicants submit that it is unreasonable to assert that one of ordinary skill in the art would seek to incorporate the filtering system of Khanolkar into Huffaker merely to provide a redundant method for focusing on a particular set of devices.
- 15. Furthermore, the motivation provided by the Examiner is irrational in view of the fact that the filters of Khanolkar are incapable of functioning for the purpose alleged by the Examiner. As noted above, the filters of Khanolkar are designed to filter a large amount of data, and pass through data indicative of a security intrusion event. (*See*, Khanolkar, col. 2, lines 10-55.) However, the system of Huffaker is totally unrelated to this concept of filtering log data for intrusion event information. Rather, Huffaker merely discloses displaying nodes of a network in a viewing window. (*See*, Huffaker, page 4.) The Examiner has failed to show how the log data filters of Khanolkar would function to "allow one to focus on a particular set of devices" in a system that merely displays nodes of a network via a viewing window. Applicants respectfully assert that one of ordinary skill in the art could not reasonably assert that such intrusion event filters would function as alleged by the Examiner.

- 16. The above cited case law makes it extremely clear that without a clear, articulated reason having some rational underpinning to explain the proposed combination, an obviousness rejection under 35 U.S.C. §103 cannot be maintained. (*See KSR*, 127 S.Ct. at 1741.) Because, as explained above, the Examiner has completely failed to provide any rational underpinning to justify the proposed combination, Applicants assert that the proposed combination of Khanolkar with Huffaker is *prima facie* improper. As such, Applicants request that the rejection of claim 1 under 35 U.S.C. §103 be reconsidered, and that it be withdrawn.
- 17. Furthermore, because the Examiner has not provided any sound basis or support to justify the proposed combinations, it is clear that the Examiner is relying on information within the personal knowledge of the Examiner. Accordingly, Applicants request that the Examiner provide an Affidavit/Declaration under 37 C.F.R. § 1.104(d)(2) supporting these statements of fact that are within the personal knowledge of the Examiner and upon which the Examiner has relied on in finding motivation for combining Khanolkar with Huffaker.

# The Proposed Combination Still Does not Contain All Elements of Applicants' Claim 1

- 18. Even if the references were modified in the manner proposed by the Examiner, the resulting combination would still fail to disclose all elements of the present invention as recited in claim 1. As recognized by the Examiner, Huffaker completely fails to teach or suggest "filter criteria, including a selection of at least one of the network device types and at least one of said status levels" as recited in claim 1. Instead, the Examiner asserts that such elements are taught by Khanolkar. Applicants respectfully submit that Khanolkar fails to teach that which is asserted by the Examiner.
- 19. As noted above, Khanolkar is directed to a monitoring system that continually receives a large amount of log data from one or more networked devices. (*See*, Khanolkar, col. 2, lines 10-44.) Filters set by the user, or set by the monitoring system, are used to continually filter this received data to determine if any intrusion events have occurred. (*See*, Khanolkar, col. 2, lines 10-44.) If an intrusion event is detected, another set of filters may be provided to determine of the intrusion event is serious enough to display to a user. (*See*, Khanolkar, col. 2, lines 45-55.)

Docket No.: 10006614-1

If an intrusion event passes through these filters, an alarm is displayed to the user. (See, Khanolkar, col. 2, lines 45-55.) As such, the filters of Khanolkar are merely filters used to continually monitor the large amounts of log data, and merely allow data that meets certain standards to pass through. The nature of the filters of Khanolkar stem from the fact that the system is a "monitoring system," indicating that when the system is operating, the filters must be in constant use to determine if an intrusion event has occurred.

20. Applicants respectfully assert that these filters disclosed in Khanolkar fail to teach "selectively applying said selected plurality of filter criteria to retrieve network device information related to the plurality network devices in said one or more networks which satisfy said selected plurality of filter criteria" as recited, in part, in claim 1. (Emphasis added). As noted, the filters of Khanolkar are not "selectively" applied, but rather are used to continually monitor a large, steady stream of data. One of ordinary skill in the art would not reasonably assert that the system of Khanolkar, having continually monitoring filters, teaches a method comprising: "selectively applying said selected plurality of filter criteria" as recited, in part, in claim 1. (Emphasis added). As such, because Khanolkar, Huffaker, and the other art of record, fail to teach or suggest this element of claim 1, Applicants assert that the rejection of claim 1 is prima facie improper.

### The Rejection of Independent Claim 14 is Improper

- 21. For at least the reasons discussed above with reference to claim 1, Applicants submit that the combination of Huffaker and Khanolkar is *prima facie* improper. Specifically, the Examiner has ignored recent Supreme Court legal precedent by failing to provide "some *articulated reasoning with some rational underpinning to support the legal conclusion of obviousness.*" (See KSR, 127 S.Ct. at 1741.)
- 22. Applicants further assert that, for at least the reasons discussed above with reference to claim 1, even if the references were combined as suggested by the Examiner, the combination would still lack all elements of the claimed invention as recited in claim 14. Specifically, the proposed combination would still fail to teach or suggest "[a] network management node... comprising... a plurality of modules are operable to... receive a user selection of the plurality of

filter criteria, including a selection of at least one of the network device types and at least one of said status levels... [and] selectively apply said selected plurality of filter criteria to retrieve network device information based on said filter information from said database" as recited, in part, in claim 14.

23. Therefore, for at least these additional reasons, Applicants respectfully submit that the rejection of claim 14 is improper. As such, Applicants respectfully request that the rejection of claim 14 be reconsidered, and that it be withdrawn.

## The Rejection of Independent Claim 17 is Improper

- 24. For at least the reasons discussed above with reference to claim 1, Applicants submit that the combination of Huffaker and Khanolkar is *prima facie* improper. Specifically, the Examiner has ignored recent Supreme Court legal precedent by failing to provide "some *articulated reasoning with some rational underpinning to support the legal conclusion of obviousness.*" (See KSR, 127 S.Ct. at 1741.)
- 25. Applicants further assert that, for at least the reasons discussed above with reference to claim 1, even if the references were combined as suggested by the Examiner, the combination would still lack all elements of the claimed invention as recited in claim 17. Specifically, the proposed combination would still fail to teach or suggest "selectively applying said selected plurality of filter criteria to retrieve network device information based on said selected filter criteria" as recited, in part, in claim 17.
- 26. Therefore, for at least these additional reasons, Applicants respectfully submit that the rejection of claim 17 is improper. As such, Applicants respectfully request that the rejection of claim 14 be reconsidered, and that it be withdrawn.

## The Rejection of Claim 30 under 35 U.S.C. §102 is Improper

27. As noted above, the Examiner has rejected claim 30 under 35 U.S.C. Section 102(a) as anticipated by Huffaker. Applicants respectfully disagree and submit that for at least the reasons discussed above with reference to claim 1, Huffaker, Khanolkar or the art of record fails to teach all elements of Applicants' amended claim 30. Specifically, Applicants assert that the art of

Docket No.: 10006614-1

record fails to teach or suggest "displaying on a display a plurality of filter criteria, wherein the plurality of filter criteria comprises a selectable list of a plurality of status levels; receiving a user selection of one or more of the plurality of filter criteria, including a selection of at least one of said status levels; *selectively applying said selected plurality of filter criteria* to retrieve network device information related to the plurality network devices in said one or more networks which satisfy said selected plurality of filter criteria" as recited in claim 30.

28. Therefore, for at least this reason, Applicants submit that claim 30 is patentable over the art of record. As such, Applicants respectfully request that the rejection of claim 30 under 35 U.S.C. §102 be reconsidered, and that it be withdrawn.

## **Dependent Claims**

29. The dependent claims incorporate all of the subject matter of their respective independent claims and add additional subject matter which makes them *a fortiori* independently patentable over the art of record. Accordingly, Applicants respectfully request that the outstanding rejections of the dependent claims be reconsidered and withdrawn.

Application No. 09/847,382 Response to Action mailed 10/31/2007

Conclusion

30. In view of the foregoing, this application should be in condition for allowance. A notice

to this effect is respectfully requested.

31. Applicants reserve the right to pursue any cancelled claims or other subject matter

disclosed in this application in a continuation or divisional application. Thus, cancellations and

amendments of above claims, are not to be construed as an admission regarding the patentability

of any claims.

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Respectfully submitted,

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Docket No.: 10006614-1